1   What is claimed is:

2   1.   A method for localization of a Java application, comprising:

3   locating a plurality of localizable variables of a class using a custom class loader;

4   finding a corresponding resource file for a current language for each localizable

5   variable;

6   calculating a key for each localizable variable;

7   finding a localized string in the resource file corresponding to each key; and

8   assigning the localized string to the corresponding localizable variable of the

9   class,

10   wherein the custom class loader provides localization of the class during class

11   loading.

12   2.   The method of claim 1, further comprising:

13   creating an instance of the custom class loader using a launcher;

14   requesting an application startup class from the custom class loader;

15   returning a localized version of the application startup class; and

16   running the application startup class using a reflection application programming

17   interface (API).

18   3.   The method of claim 1, further comprising loading resource files of the class from

19   a storage device using the custom class loader.

20   4.   The method of claim 1, further comprising:

21   loading the class from a bootstrap class loader; and

22   passing a localized class to a Java virtual machine.

23   5.   An apparatus for localization of a Java application, comprising:

24   a custom class loader capable of inspecting codes of the application, and

25   converting strings of a class to localized strings during class loading, thereby providing

26   localization of the class during class loading;

27   a reflection application programming interface (API) capable of obtaining

28   descriptors of variables of the class; and

29   a launcher capable of creating an instance of the custom class loader and running

30   an application startup class using the reflection API.

31   6.   The apparatus of claim 5, wherein the custom class loader is a subclass of a Java

32   language class loader.

33   7.   The apparatus of claim 5, wherein the custom class loader locates the plurality of

34   localizable variables of the class.

1   8.   The apparatus of claim 7, wherein the custom class loader finds a corresponding

2   resource file for a current language for each localizable variable.

3   9.   The apparatus of claim 8, wherein the custom class loader calculates a key for

4   each localizable variable.

5   10.   The apparatus of claim 9, wherein the custom class loader finds a localized string

6   in the resource file corresponding to each key.

7   11.   The apparatus of claim 10, wherein the custom class loader assigns the localized

8   string to the corresponding localizable variable of the class.

9   12.   The apparatus of claim 5, wherein the custom class loader loads the class from a

10   bootstrap class loader.

11   13.   The apparatus of claim 5, wherein the custom class loader passes a localized class

12   to a Java virtual machine.

13   14.   The apparatus of claim 5, wherein the launcher creates an instance of the custom

14   class loader.

15   15.   The apparatus of claim 5, wherein the launcher requests an application startup

16   class from the custom class loader, wherein the custom class loader returns a localized

17   version of the application startup class.

18   16.   The apparatus of claim 15, wherein the custom class loader runs the application

19   startup class using a reflection application programming interface (API).

20   17.   A computer readable medium providing instructions for localization of a Java

21   application, the instructions comprising:

22   locating a plurality of localizable variables of a class using a custom class loader;

23   finding a corresponding resource file for a current language for each localizable

24   variable;

25   calculating a key for each localizable variable;

26   finding a localized string in the resource file corresponding to each key; and

27   assigning the localized string to the corresponding localizable variable of the

28   class,

29   wherein the custom class loader provides localization of the class during class

30   loading.

31   18.   The computer readable medium of claim 17, further comprising instructions for:

32   creating an instance of the custom class loader using a launcher;

33   requesting an application startup class from the custom class loader;

34   returning a localized version of the application startup class; and

1   running the application startup class using a reflection application programming

2   interface (API).

3   19.   The computer readable medium of claim 17, further comprising instructions for

4   loading resource files of the class from a storage device using the custom class loader.

5   20.   The computer readable medium of claim 17, further comprising instructions for:

6   loading the class from a bootstrap class loader; and

7   passing a localized class to a Java virtual machine.